

Appl. No. 09/627,254
Amdt. dated December 22, 2003
Reply to Office action of October 21, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A radio system for sending and receiving electronic messages from a personal digital assistant through a cellular phone, the radio having ~~a microprocessor, a~~ display and a connector for connecting to the personal digital assistant, said system comprising:
a modem incorporated into the radio and having means for connecting to the personal digital assistant;

a communication port having access to said modem and the cellular phone, said communication port ~~having~~ including a controller for communicating transmission signals to ~~said the~~ radio including signals having information about the status of a communication connection between the personal digital assistant and the cellular phone through said modem; and

software for the ~~microprocessor controller~~ including both instructions for determining the status of the communication connection and instructions for displaying the status of the communication connection between the personal digital assistant and the cellular phone on the display of the radio.

2. (Original) The system as claimed in claim 1 wherein said modem further comprises AT commands that are decoded and acted upon by the radio.

3. (Original) The system as claimed in claim 2 wherein said AT commands further comprise a dial command, a hang-up command, and an extended results code command.

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4. (Previously Presented) The system as claimed in claim 1 wherein said communication port disables predetermined functions of the radio during communication between the phone and the personal digital assistant so as not to interfere with the data transmission.

5. (Currently Amended) A method for sending and receiving electronic messages from a personal digital assistant and a cellular phone through a radio system having a modem and a communication port, said method comprising the steps of:

connecting the personal digital assistant to the modem in the radio system;
connecting the cellular phone to the communications port; transmitting a phone number from the personal digital assistant to the radio;
sending the phone number from the radio to the cellular phone; dialling the phone number from the cellular phone;
establishing an audio channel connection between the phone and the modem;
determining the ~~existence~~ status of a computer connection for the transfer of data between the personal digital assistant and the cellular phone through said modem;
monitoring for a loss of connection or a hang up signal from the personal digital assistant;
and
ending the audio channel connection upon loss of connection or receipt of said hang up signal; and
displaying the status of the communication connection between the personal digital assistant and the cellular phone on the display of the radio.

6. (Previously Presented) The method as claimed in claim 5 wherein said step of transmitting a phone number further comprises the steps of:

monitoring the connection between the personal digital assistant and the modem for a signal indicating data terminal ready by way of the radio;
verifying the availability of the phone upon receipt of the data terminal ready signal;

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disabling all other radio functions by way of the communication port upon confirmation that the phone is available; and
monitoring the personal digital assistant for receipt of a phone number to be dialled.

7. (Previously Presented) The method as claimed in claim 6 wherein said step of monitoring the personal digital assistant for receipt of a phone number to be dialled further comprises the step of sending a signal to the communication port to terminate the audio channel connection after a predetermined period of time elapses without receipt of a phone number.

8. (Original) The method as claimed in claim 6 wherein said step of verifying the availability of the phone upon receipt of the data terminal ready signal further comprises the steps of:

displaying a message on the radio indicating the phone is unavailable when the phone is unavailable;

continuing to monitor the personal digital assistant for a data terminal ready signal;
and

waiting a predetermined period of time before resuming the step of verifying the availability of the phone.

9. (Original) The method as claimed in claim 8 further comprising the steps of:

removing power from the modem in the absence of a data terminal ready signal; and
terminating the audio channel connection.

10. (Original) The method as claimed in claim 5 wherein said step of verifying the existence of a computer connection further comprises the steps of:

determining a computer connection does not exist;

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determining the existence of an operator on the audio channel; terminating the cellular phone call;
terminating the audio channel connection;
waiting for a predetermined period of time before resuming the method at the step of verifying the availability of the phone.

11. (Original) The method as claimed in claim 5 wherein said step of verifying the existence of a computer connection further comprises the steps of:

determining the status of the phone; and
determining the status of the modem.

12. (Original) The method as claimed in claim 11 wherein said steps of determining the status of the phone and modem further comprise the steps of:

determining either of phone or the modem are not connected;
displaying a message on the radio that the call cannot be completed;
terminating the audio channel connection; and
waiting for a predetermined period of time before resuming the method at the step of verifying the availability of the phone.

13. (Original) The method as claimed in claim 5 wherein said step of determining the existence of a computer connection for the transfer of data between the personal digital assistant and the cellular phone further comprises the step of displaying a message on said radio indicating the transfer of data is taking place.

14. (Original) The method as claimed in claim 5 wherein said step of monitoring for a loss of connection or a hang up signal from the personal digital assistant further comprises the step of displaying a message on the radio that the call is complete upon receipt of a hang up signal from the personal digital assistant.

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15. (Original) The method as claimed in claim 5 wherein said step of monitoring for a loss of connection or a hang up signal from the personal digital assistant further comprises the steps of:

determining that there is an absence of signal traffic for a predetermined period of time; and

terminating the audio channel connection.

16. (Original) The method as claimed in claim 15 further comprising the steps of:

displaying a message on the radio indicating the call is incomplete;

terminating the audio channel connection; and

waiting for a predetermined period of time before resuming the method at the step of verifying the availability of the phone.

17. (Currently Amended) A method for sending and receiving electronic messages from a personal digital assistant and a cellular phone through a radio system having a modem, a display and a communication port, said method comprising the steps of:

connecting the personal digital assistant to the modem;

utilizing the communication port as a communication link between the modem and the cellular phone; and

determining the status of a communication connection between the personal digital assistant and the cellular phone through the modem and displaying the status of the communication connection on the display of the radio.

18. (Previously Presented) The method as claimed in claim 17 wherein the utilizing step includes a step of connecting the cellular phone to the communication port.

19. (Previously Presented) The method as claimed in claim 18 further comprising

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the steps of:

- transmitting a phone number from the personal digital assistant to the radio;
- sending the phone number from the radio to the cellular phone;
- dialing the phone number from the cellular phone;
- establishing an audio channel connection between the phone and the modem;
- determining the existence of the communication connection for the transfer of data between the personal digital assistant and the cellular phone;
- monitoring for a loss of connection or a hang up signal from the personal digital assistant;
- and
- ending the audio channel connection upon loss of connection or the receipt of said hang up signal.

20. (Currently Amended) A radio system for sending and receiving electronic messages from a personal digital assistant through a cellular phone, said radio system comprising:

- a radio including a modem, ~~a microprocessor~~ and a connector for connecting to the personal digital assistant;

- a communication port connected to said modem and having a connector for connecting to the cellular phone, said communication port ~~having~~ including a controller for communicating transmission signals to said radio including signals having information about the status of a communication connection between the personal digital assistant and the cellular phone through said modem; and

- software for the ~~microprocessor including~~ controller including instructions for determining the status of the communication connection from said communication port.

21. (Previously Presented) The radio system as claimed in claim 20 wherein said radio includes a display, said software including instructions for displaying the status of the communication connection from said communication port on said display.

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22. (Previously Presented) The radio system as claimed in claim 20 wherein said modem further comprises AT commands that are decoded and acted upon by the radio.

23. (Previously Presented) The radio system as claimed in claim 22 wherein said AT commands further comprise a dial command, a hang-up command, and an extended results code command.

24. (Previously Presented) The radio system as claimed in claim 20 wherein said communication port disables predetermined functions of the radio during communication between the cellular phone and the personal digital assistant so as not to interfere with the data transmission.